

CLAIM AMENDMENTS:

Please cancel claim 10 and amend claims 1, 11, 14, and 20 as shown beginning on the next page.

CLAIMS:

1. (currently amended): An electric vehicle rapid charging connector, comprising:

(a) a connector plug having a body, said body having a first end and an opposite second end;

(b) means for attaching an electrical cable at said first end of said body, said electrical cable including a plurality of electrical conductors therein;

(c) means for providing a plurality of sockets at said second end of said body, at least two of said plurality of sockets adapted for recharging a battery of said electric vehicle; and

(d) means for providing at least one cavity in said body and including means for determining a temperature of said connector and wherein said means for determining a temperature is adapted to affect a current that is flowing through at least one of said plurality of electrical conductors subsequent to said temperature exceeding a predetermined threshold amount.

2. (previously amended): The electric vehicle rapid charging connector of claim 1 wherein said cavity is adapted to receive a module.

3. (previously amended): The electric vehicle rapid charging connector of claim 2 wherein said module includes at least one switch, said at least one switch attached to at least one of said plurality of electrical conductors.

4. (previously amended): The electric vehicle rapid charging connector of claim 2 wherein said module includes at least one indicator light, said at least one indicator light attached to at least one of said plurality of electrical conductors.

5. (previously amended): The electric vehicle rapid charging connector of claim 2 wherein said module includes at least one blank, said at least one blank adapted for covering an opening into said at least one cavity.

6. (previously amended): The electric vehicle rapid charging connector of claim 2 wherein said module includes at least one switch, said at least one switch attached to at least one of said plurality of electrical conductors and wherein said module includes at least one indicator light, said at least one indicator light attached to at least one of said plurality of electrical conductors.

7. (previously amended): The electric vehicle rapid charging connector of claim 1 wherein said plurality of sockets is adapted to mate electrically with a plurality of pins that are disposed in a receptacle, said receptacle adapted for attachment to said electric vehicle.

8. (previously amended): The electric vehicle rapid charging connector of claim 7 wherein at least one of said plurality of pins is longer than at least one other of said plurality of pins and whereby said at least one of said plurality of pins that is longer is adapted to mate electrically with at least one of said plurality of sockets before at least one other of said plurality of pins is adapted to mate electrically with at least one other of said plurality of sockets.

9. (previously amended): The electric vehicle rapid charging connector of claim 7 wherein said connector is electrically connected to means for monitoring at least one parameter in said electric vehicle when said connector is electrically connected with said receptacle.

10. (canceled)

11. (currently amended): The electric vehicle rapid charging connector of claim 10 wherein said means for determining a temperature includes at least one device selected from the group consisting of resistance temperature detector, thermocouple, and temperature sensing switches.

12. (previously amended): The electric vehicle rapid charging connector of claim 10 wherein said means for determining a temperature is attached to a first end of said at least one of said plurality of electrical conductors and including means for monitoring said temperature that is

attached to a second end of said at least one of said plurality of electrical conductors.

13. (previously amended): The electric vehicle rapid charging connector of claim 12 wherein said means for monitoring is adapted to affect a current that is flowing through said conductor subsequent to said temperature exceeding a predetermined threshold amount.

14. (currently amended): An electric vehicle rapid charging connector, comprising:

(a) a connector plug having a body, said body having a first end and an opposite second end;

(b) means for attaching an electrical cable at said first end of said body, said electrical cable including a plurality of electrical conductors therein;

(c) means for providing a plurality of sockets at said second end of said body, at least two of said plurality of sockets adapted for recharging a battery of said electric vehicle; and

(d) means for determining a temperature in said body
and wherein said means for determining a temperature is
adapted to affect a current that is flowing through at
least one of said plurality of electrical conductors
subsequent to said temperature exceeding a
predetermined threshold amount.

15. (previously amended): The electric vehicle rapid
charging connector of claim 14 wherein said means for
determining a temperature in said body is adapted to supply
a signal through said electrical cable, said signal being
representative of said temperature in said body.

16. (previously amended): The electric vehicle rapid
charging connector of claim 15 including control means that
is adapted to receive said signal and wherein a current that
is supplied for charging at least one battery in said
electric vehicle through said connector is lessened by said
control means subsequent to said temperature in said body
exceeding a predetermined threshold level.

17. (previously amended): The electric vehicle rapid charging connector of claim 16 wherein at least two of said sockets are adapted to carry a maximal flow of current for a predetermined limited amount of time and wherein when said maximal flow of current occurring through at least two of said sockets exceeds said predetermined limited amount of time, said temperature in said body rises and wherein if said maximal flow of current continues for a sufficient amount of time said temperature in said body will exceed said threshold level.

18. (previously amended): The electric vehicle rapid charging connector of claim 17 wherein said at least two of said sockets are smaller than would be required to maintain said maximal flow of current through said at least two of said sockets to continue indefinitely.

19. (previously amended): The electric vehicle rapid charging connector of claim 15 including control means that is adapted to receive said signal and wherein the flow of a current that is supplied for charging at least one battery in said electric vehicle through said connector is stopped

by said control means subsequent to said temperature in said body exceeding a predetermined threshold amount.

20. (currently amended): An electric vehicle rapid charging connector, comprising:

(a) a connector plug having a body, said body having a first end and an opposite second end;

(b) means for attaching an electrical cable at said first end of said connector, said electrical cable including a plurality of electrical conductors therein;

(c) means for providing a plurality of pins at said second end of said connector, at least two of said plurality of pins adapted for recharging a battery of said electric vehicle; and

(d) means for providing at least one cavity in said body and including means for determining a temperature of said connector and wherein said means for determining a temperature is adapted to affect a current that is flowing through at least one of said

plurality of electrical conductors subsequent to said
temperature exceeding a predetermined threshold amount.